

In the Specification

Please replace the paragraph found on page 66, lines 1-2 of the specification with the following paragraph:

~~Figure 4 is~~ Figures 4A and 4B show a schematic of a single stepwise sequencing cycle, using the NH₂-ddNTP system (Figure 4A) and the alpha-s-ddNTP system (Figure 4B).

Please replace the paragraphs found on page 66, lines 18-25 of the specification with the following paragraph:

~~Figure 7 illustrates~~ Figures 7A and 7B illustrate the sequencing by ligation scheme in the 5'-3' direction. Sequencing by ligation can also be implemented in the 3'-5' direction by using 5' ~~phosphorylated~~ phosphorylated free ends on the array and a ligating oligonucleotide bearing a ribonucleotide cleavage system.

~~Figure 8 shows~~ Figures 8A and 8B show the cleavage reaction of a PN oligonucleotide that has been ligated to a primer (Figure 8A) and the cleavage reaction of a ribonucleotide containing oligo that has been ligated to a primer (Figure 8B).